

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Heinrich et al.	Examiner:	P. Nguyen
Serial No.:	09/329,557	Group Art Unit:	2671
Filed:	6/10/99	Docket:	18195.25
Title:	System for Reducing Aliasing on a Display Device		

PETITION TO REVIVE UNDER 37 CFR § 1.137(b)

Mail Stop Petition
Office of Petitions
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

FAX RECEIVED**MAY 08 2003****PETITIONS OFFICE**

This is a Petition to revive unintentionally abandoned application. This Petition is a substitute to a previously filed Petition to Revive under 37 CFR §137(a), which was filed on March 12, 2003.

The above identified application became abandoned for failure to timely pay the issue fee, which was due on January 23, 2003. The abandonment date of this application is January 24, 2003.

Applicant hereby petitions for revival of this application and this petition is supported by:

1. A petition fee to revive an unintentionally abandoned patent application \$1,300.00;
2. A request for continued examination (RCE);
3. The fee for the RCE of \$750.00 is enclosed herewith;
4. No terminal disclaimer is required because the application was filed in 1999;
5. An Information Disclosure Statement with two references; and
6. A statement of unintentional abandonment:

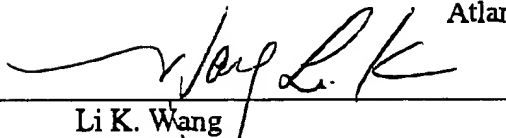
The entire delay in filing a RCE was unintentional because Applicant was waiting to hear from the Examiner about the two timely submitted IDS' that the Examiner failed to acknowledge.

The Patent Office also failed to respond to the Status Inquiry that was submitted on December 13, 2002. Applicant made the inquiry because the Examiner failed to acknowledge with the Notice of Allowance two IDS' submitted timely on 10/20/1999 and 2/11/2000. The copies of the IDS' originally submitted with postcards file-stamped by the Patent Office were included in the inquiry. Because the IDS' were timely filed, they must be considered by the Examiner prior to the issuance of the patent.

Please convert the fee code for the previously submitted issue fee to RCE fee and apply the difference (\$530.00) toward the current Petition fee for unintentional abandonment. Enclosed is a credit card payment form (PTO-2038) for \$660.00, which, together with the aforementioned difference (\$530.00), covers the difference between the previously submitted Petition fee of \$110 and the Petition fee for unintentional abandonment of \$1,300.00.

Respectfully submitted,
Heinrich et al.
By their Representatives,

Arnall Golden Gregory LLP
1201 West Peachtree Street
Suite 2800
Atlanta, GA 30309-3450


Li K. Wang
Reg. No. 44,393

Date 5/8/03

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being faxed to Office of Petitions, Commissioner of Patents, Alexandria, VA 22313-1450.

Lucille Golden-Blakey
Name


Signature

5/8/03

**Arnall
Golden
Gregory LLP**

FAX RECEIVED

MAY 08 2003

FACSIMILE

FACSIMILE

Direct phone: 404.873.8734

Direct fax: 404.873.8735

E-Mail: li.wang@agg.com

<u>To</u>	<u>Company</u>	<u>Fax No.</u>	<u>Phone No.</u>
Alicia Brown	USPTO/Office of Petitions	(703) 308-6916	

<u>From</u>	<u>Client/Matter Number</u>	<u>Date</u>
Li K. Wang	18195.25/System for Reducing Aliasing on a Display Device	May 8, 2003

Total number of pages including this page: # 2
If you do not receive all the pages, please call 404.873.8734.

Ms. Brown:

We inadvertently failed to USPTO Credit Card Payment signed. Attached herewith is the signed copy.

Thanks.

Li K Wang

☒ Original will not follow ☐ Original will follow via: ☐ First Class Mail ☐ Federal Express ☐ Priority Mail ☐ Hand Delivery

This facsimile and all attachments transmitted with it from the law firm of Arnall Golden Gregory LLP are intended for use only by those to whom it is addressed and may contain information that is legally privileged or confidential. If you are not the intended recipient, please notify us promptly, return this transmission, and do not disclose or distribute it.

(Rev. 7-1-99) Pub. 825

FORM 6-3

6-39

DOCKETEDPractitioner's Docket No. 1247/A23**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent application

of _____

Inventor(s)

for _____

Title of Invention

ORIn re application of: Heinrich et al.Serial No.: 09 / 329,557Group Art Unit: 1613Filed: June 10, 1999

Examiner:

For: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICEAssistant Commissioner for Patents
Washington, D.C. 20231**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. 1.97(b))**

NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant: (1) within three months of the filing date of a national application; (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 C.F.R. 1.97(b).

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING**FACSIMILE**

☒ deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

☐ transmitted by facsimile to the Patent and Trademark Office.

Date: 10/20/99

Signature

Dorothy M. Real

(type or print name of person certifying)

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]—page 1 of 2)

NOTE: The filing date of a national application under 37 C.F.R. 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined by 37 C.F.R. 1.63(b) as "the date on which the specification containing a description pursuant to 37 C.F.R. 1.61 and at least one claim pursuant to § 1.70; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 C.F.R. 1.97(b)(2).

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. 1.97(b).

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NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).



SIGNATURE OF PRACTITIONER

Reg. No.: 36,265

Tel. No.: (617) 443-9292

Customer No.: 002101

Steven G. Saunders

(type or print name of practitioner)

BROMBERG & SUNSTEIN LLP

P.O. Address:

125 Summer Street, Boston, MA 02110

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]—page 2 of 2)

Re 71-697 Pub.605

FORM 6-1

6-13

Practitioner's Docket No. 1247/A23**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent application

of _____

Inventor(s) _____

for _____

Title of Invention _____

the specification of which is being transmitted herewith

OR

In re application of: Heinrich et al.Serial No.: 09 / 329,557Group No.: 1613Filed: June 10, 1999

Examiner: _____

For: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICEAssistant Commissioner for Patents
Washington, D.C. 20231**INFORMATION DISCLOSURE STATEMENT****CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10***(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING☒ deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

37 C.F.R. 1.8(a)

37 C.F.R. 1.10*

☒ with sufficient postage as first class mail.☐ as "Express Mail Post Office to Addressee"

Mailing Label No. _____ (mandatory.)

TRANSMISSION☐ transmitted by facsimile to the Patent and Trademark Office.

Signature _____

Date: 10/20/99Dorothy M. Real

(Type or print name of person certifying)

***WARNING:** Each paper or fee filed by Express Mail must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).*"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 58,442.*(Information Disclosure Statement [6-1]—page 1 of 1)

NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant

- (1) Within three months of the filing date of a national application;
- (2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or
- (3) Before the mailing date of a first Office action on the merits, whichever event occurs last."

37 C.F.R. 1.97(b).

NOTE: "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.F.R. 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. 1.56(c).

NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b) - (d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O.G. 13 -25 at 17.

WARNING: "No information disclosure statement may be filed in a provisional application." 37 C.F.R. § 1.51(b).

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement: discard unused sections and number pages consecutively)

- 1. ☒ Preliminary Statements
- 2. ☒ FORM PTO-1449 (PTO/SB/08A and 086)
- 3. ☐ Statement as to Information Not Found in Patents or Publications
- 4. ☐ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
- 5. ☐ Cumulative Patents or Publications
- 6. ☒ Copies of Listed Information Items Accompanying This Statement
- 7. ☐ Concise Explanation of Non-English Language Listed Information Items
 - 7A. ☐ EPO Search Report
 - 7B. ☐ English Language Version of EPO Search Report
- 8. ☐ Translation(s) of Non-English Language Documents
- 9. ☐ Concise Explanation of English Language Listed Information Items (Optional)
- 10. ☒ Identification of Person(s) Making This Information Disclosure Statement

(complete the following, if appropriate)

Sections _____, respectively, have been continued on ADDED PAGE(S).

NOTE: "Once the minimum requirements are met, the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

(Pat. 71-697 Pub. 605)

FORM 6-1

6-15

Section 1. Preliminary statements

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this Information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this Information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 19-25, at 25.

SECTION 2: FORM PTO 1449 - MODIFIED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Heinrich, et al.

Atty Dkt: 1247/A23

Serial No: 09/329,557

Date: October 20, 1999

Date Filed: June 10, 1999

Invention: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICE

Assistant Commissioner for Patents
Washington, DC 20231LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS'
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

U.S. Documents

<u>Exam.</u> <u>Init.</u>	<u>Ref.</u> <u>No.</u>	<u>Document</u> <u>Number</u>	<u>Issue</u> <u>Date</u>	<u>Name</u>	<u>Class</u>
	AR	5,363,475	Nov. 8, 1994	Baker et al.	395/122

Foreign Documents

<u>Exam.</u> <u>Init.</u>	<u>Ref.</u> <u>No.</u>	<u>Document</u> <u>Number</u>	<u>Issue</u> <u>Date</u>	<u>Name</u>	<u>Country</u>
	AS	0 463 700 A2	Jan. 2, 1992	Morris	Europe
	AT	WO 86/07646	Dec. 31, 1986	Cook et al.	World

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

Other Documents

Exam. Ref.

Init. No. Document

- AU "A New Simple and Efficient Antialiasing with Subpixel Masks," Schilling et al., Computer Graphics, Volume 25, Number 4, July 1991, pp. 133-140.
- AV "The Accumulation Buffer: Hardware Support for High-Quality Rendering," Paul Haeberli et al., Computer Graphics, Volume 24, Number 4, August 1990, pp. 309-318.
- AW "The Reyes Image Rendering Architecture," Cook et al., Computer Graphics, Volume 21, Number 4, July 1987, pp. 95-102.

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

Section 6. Copies of Listed Information Items Accompanying This Statement

NOTE: 37 C.F.R. 1.98(a)(2) requires that any information disclosure statement filed under § 1.97 shall include: "A legible copy of: (i) Each U.S. and foreign patent; (ii) Each publication or that portion which caused it to be listed; and (iii) All other information or that portion which caused it to be listed, except that no copy of a U.S. patent application need be included . . ."

NOTE: The wording in § 1.98(a)(2)(iii) makes it clear that the requirement to submit a copy of each item of information listed in an information disclosure statement does not apply to the citation of a U.S. patent application. Notice of January 9, 1992, 1135 O.G. 13-25, at 14.

Legible copies of all items listed in Form PTO-1449 (PTO/SB/08A and 08B) accompany this information statement.

(complete the following, if applicable)

☐ Exception(s) to above:

- ☐ Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.
- ☐ Cumulative patents or publications identified in Section 5.

Section 10. Identification of Person(s) Making THIS INFORMATION DISCLOSURE STATEMENT

The person making this statement is

(check each applicable item)

- (a)
- ☐
- the inventor(s) who signs below

SIGNATURE OF INVENTOR_____
(type name of inventor who is signing)

- (b)
- ☐
- an individual associated with the filing and prosecution of this application (37 C.F.R. 1.56(c))

SIGNATURE OF INVENTOR_____
(type name of inventor who is signing)

- (c)
- ☒
- the attorney who signs below on the basis of the information:

(check each applicable item)

- ☐ supplied by the inventor(s).
- ☐ supplied by an individual associated with the filing and prosecution of this application. (37 C.F.R. 1.56(c))
- ☒ In the attorney's file.



SIGNATURE OF PRACTITIONER

Steven G. Saunders

(type or print name of practitioner)

BROMBERG & SUNSTEIN LLP

P.O. Address125 Summer Street, Boston, MA 02110

Reg. No.: 36,265

Tel. No.: (617)443-9292

Customer No.: 002101

SGS:vel

PLEASE DATE, STAMP AND RETURN

The Assistant Commissioner for Patents has received from Bronberg & Sonstien the following re:

Inventor: Heinrich et al.

Docket No: 1247/A23

Title: SYSTEM FOR REDUCING ALIASING...

Art Unit:

Serial/Patent No: 09/329,557

Examiner:

Filing/Issue Date: June 10, 1999

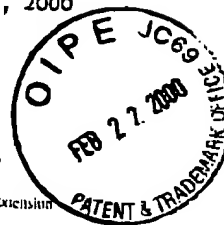
Date: February 11, 2000

Express Mail No:

Documents:

- ☐ New Application Transmittal
☐ Provisional Application Cover Sheet
☐ Description - _____ pages
☐ Claims - _____ pages
☐ Abstract
☐ _____ sheets of drawings
 ☐ formal ☐ informal
☐ Declaration & Power of Attorney
 ☐ executed ☐ unexecuted
☐ Small Entity Statement
☐ Assignment/Recordation Form Cover Sheet
☐ Completion of Filing Requirements

- ☐ Amendment Transmittal
☐ Amendment (Preliminary)
☐ Response _____
☒ IDS & References: AX-DT
☐ Petition for _____ month Extension
☐ Transmittal of Formal Drawings
☐ Issue Fee Transmittal & Form PTOL-85b
☐ Payment of _____ Maintenance Fee
☐ Check in the amount of \$ _____
☐ _____
☐ _____



(Re. 171-597 Pub. 875)

FORM 6-3

6-39

B

Practitioner's Docket No. 1247/A23**DOCKETED**
PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent application

of _____
Inventor(s)for _____
Title of invention**OR**In re application of: Heinrich et al.Serial No.: 09 / 329,557

Group Art Unit:

Filed: June 10, 1999

Examiner:

For: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICEAssistant Commissioner for Patents
Washington, D.C. 20231**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**
WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. 1.97(b))

NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant: (1) within three months of the filing date of a national application; (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 C.F.R. 1.97(b).

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING**FACSIMILE**

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☐ transmitted by facsimile to the Patent and Trademark Office.

Date: 2/11/00

Signature

Dorothy M. Real

(type or print name of person certifying)

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [6-3]-page 1 of 2)

the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. 1.53(b) as "the date on which: (1) a specification containing a description pursuant to 37 C.F.R. 1.53(b) and at least one claim pursuant to § 1.1, and (2) any drawing required by § 1.81(a), are filed. no Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 C.F.R. 1.97(b)(2).

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SIGNATURE OF PRACTITIONER

Reg. No.: 36,265

Steven G. Saunders

Tel. No.: (617) 443-9292

(type or print name of practitioner)

Customer No.: 002101

BROMBERG & SUNSTEIN LLP

P.O. Address

125 Summer Street, Boston, MA 02110

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [8-J]—page 2 of 2)

Pat. 6-1 Pub. 6-1

FORM 6-1

-13

Practitioner's Docket No. 1247/A23

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application

of

Inventor(s)

for

Title of Invention

the specification of which is being transmitted herewith

OR

In re application of: Heinrich et al.

Serial No.: 09 / 329,557

Group No.:

Filed: June 10, 1999

Examiner:

For: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICE

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10

(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

☒ deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231
37 C.F.R. 1.8(a)☒ with sufficient postage as first class mail.

37 C.F.R. 1.10"

☐ as "Express Mail Post Office to Addressee"

Mailing Label No. (mandatory.)

TRANSMISSION

☐ transmitted by facsimile to the Patent and Trademark Office.

Signature

Date: 2/11/00

Dorothy M. Real

(type or print name of person certifying)

***WARNING:** Each paper or fee filed by Express Mail must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

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(Information Disclosure Statement [8-1]—page 1 of 10)

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- (3) Before the mailing date of a first Office action on the merits, whichever event occurs last."

37 C.F.R. 1.87(b).

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"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. 1.56(c).

NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b) - (d) and 1.98 before issuance of the patent." Notice of January 8, 1992, 1135 O.G. 13 -25 at 17.

WARNING: "No information disclosure statement may be filed in a provisional application." 37 C.F.R. § 1.51(b).

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement; discard unused sections and number pages consecutively)

- 1. ☒ Preliminary Statements
- 2. ☒ FORM PTO-1449 (PTO/SB/08A and 086)
- 3. ☐ Statement as to Information Not Found in Patents or Publications
- 4. ☐ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
- 5. ☐ Cumulative Patents or Publications
- 6. ☒ Copies of Listed Information Items Accompanying This Statement
- 7. ☐ Concise Explanation of Non-English Language Listed Information Items
 - 7A. ☐ EPO Search Report
 - 7B. ☐ English Language Version of EPO Search Report
- 8. ☐ Translation(s) of Non-English Language Documents
- 9. ☐ Concise Explanation of English Language Listed Information Items (Optional)
- 10. ☒ Identification of Person(s) Making This Information Disclosure Statement

(complete the following, if appropriate)

Sections _____, respectively, have been continued on ADDED PAGE(S).

NOTE: "Once the minimum requirements are met, the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

(Information Disclosure Statement (8-1)—page 2 of 10)

~~Pat. 71-697 Pub. 605~~

FORM 6-1

15**Section 1. Preliminary statements**

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

SECTION 2: FORM PTO 1449 - MODIFIED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Heinrich et al.

Atty Dkt: 1247/A23

Serial No: 09/329,557

Date: February 11, 2000

Date Filed: June 10, 1999

Invention: SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICE

Assistant Commissioner for Patents
Washington, DC 20231LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTU.S. Documents

Exam. Ref.	Document	Issue			
<u>Init.</u>	<u>No.</u>	<u>Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>
AX	4,434,437	Feb. 28, 1984		Strolle et al.	358/140
AY	4,615,013	Sep. 30, 1986		Yan et al.	364/521
AZ	4,646,232	Feb. 24, 1987		Chang et al.	364/200
BA	4,908,780	March 13, 1990		Priem et al.	364/521
BB	4,918,626	April 17, 1990		Watkins et al.	364/522
BC	4,991,122	Feb. 5, 1991		Sanders	364/521
BD	5,107,415	April 21, 1992		Sato et al.	395/800
BE	5,123,085	June 16, 1992		Wells et al.	395/121

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

BF	5,239,654	Aug. 24, 1993	Ing-Simmons et al.	395/800
BG	5,287,438	Feb. 15, 1994	Kelleher	395/132
BH	5,293,480	March 8, 1994	Miller et al.	395/163
BI	5,313,551	May 17, 1994	Labrousse et al.	395/425
BJ	5,363,475	Nov. 8, 1994	Baker et al.	395/122
BK	5,371,840	Dec. 6, 1994	Fischer et al.	395/133
BL	5,394,524	Feb. 28, 1995	DiNicola et al.	395/163
BM	5,398,328	March 14, 1995	Weber et al.	395/500
BN	5,446,479	Aug. 29, 1995	Thompson et al.	345/139
BO	5,485,559	Jan. 16, 1996	Sakaibara et al.	395/133
BP	5,511,165	April 23, 1996	Brady et al.	395/200.01
BQ	5,519,823	May 21, 1996	Barkans	395/143
BR	5,544,294	Aug. 6, 1996	Cho et al.	395/141
BS	5,555,359	Sep. 10, 1996	Choi et al.	395/141
BT	5,557,734	Sep. 17, 1996	Wilson	395/162
BU	5,561,749	Oct. 1, 1996	Schroeder	395/120
BV	5,572,713	Nov. 5, 1996	Weber et al.	395/500
BW	5,631,693	May 20, 1997	Wunderlich et al.	348/7
BX	5,664,114	Sep. 2, 1997	Krech, Jr. et al.	395/200.64
BY	5,666,520	Sep. 9, 1997	Fujita et al.	345/513
BZ	5,684,939	Nov. 4, 1997	Foran et al.	395/131
CA	5,701,365	Dec. 23, 1997	Harrington et al.	382/212
CB	5,706,481	Jan. 6, 1998	Hannah et al.	395/519
CC	5,721,812	Feb. 24, 1998	Mochizuki	395/110
CD	5,737,455	April 7, 1998	Harrington et al.	382/284
CE	5,757,375	May 26, 1998	Kawase	345/429
CF	5,757,385	May 26, 1998	Narayanaswami et al.	345/505
CG	5,764,237	June 9, 1998	Kaneko	345/430
CH	5,821,950	Oct. 13, 1998	Rentschler et al.	345/505
CI	5,841,444	Nov. 24, 1998	Mun et al.	345/506
CJ	5,870,567	Feb. 9, 1999	Hausauer et al.	395/281
CK	5,883,641	March 16, 1999	Krech, Jr. et al.	345/505
CL	5,914,711	June 22, 1999	Mangerson et al.	345/203

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MP/EP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

Foreign Patent Documents

<u>Exam.</u> <u>Init.</u>	<u>Ref.</u> <u>No.</u>	<u>Document</u> <u>Number</u>	<u>Issue</u> <u>Date</u>	<u>Country</u>
	CM	WO 86/07646	Dec. 31, 1986	World
	CN	0 311 798 A2	April 19, 1989	Europe
	CO	0 397 180 A2	Nov. 14, 1990	Europe
	CP	0 438 194 A2	July 24, 1991	Europe
	CQ	0 448 286 A2	Sept. 25, 1991	Europe
	CR	0 463 700 A2	Jan. 2, 1992	Europe
	CS	WO 92/00570	Jan. 9, 1992	World
	CT	0 566 229 A2	Oct. 20, 1993	Europe
	CU	WO 93/06553	April 1, 1993	World
	CV	0 627 682 A1	Dec. 7, 1994	Europe
	CW	0 631 252 A2	Dec. 28, 1994	Europe
	CX	0 693 737 A2	Jan. 24, 1996	Europe
	CY	0 734 008 A1	Sept. 25, 1996	Europe
	CZ	0 735 463 A2	Oct. 2, 1996	Europe
	DA	0 810 553 A2	Dec. 3, 1997	Europe
	DB	WO 97/21192	June 12, 1997	World
	DC	0 840 279 A2	May 6, 1998	Europe
	DD	0 825 550 A2	Feb. 25, 1998	Europe
	DE	0 817 009 A2	Jan. 7, 1998	Europe

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

Other Documents

<u>Exam.</u>	<u>Ref.</u>	
<u>Init.</u>	<u>No.</u>	<u>Name</u>
DF		"A Fine Grained Data Flow Machine and Its Concurrent Execution Mechanism," Iwashita et al., C&C Information Technology Research Labs, April 1989, pp. 63-72.
DG		"A Dataflow Image Processing System TIP-4," Fujita et al., C&C Information Technology Research Labs, NEC Corporation, September 1989, pp. 735-741.
DH		"Processing the New World of Interactive Media," Rathnam, The Trimedia VLIW CPU Architecture, March 1998, pp. 108-117.
DI		"Effective Cache Mechanism for Texture Mapping," IBM Technical Disclosure Bulletin, Vol. 39, No. 12, December 1996, pp. 213-217.
DJ		"Advanced Raster Graphics Architecture," XP-002118066, pp.890-892.
DK		"Data-Format Conversion: Intel/Non-Intel," Vol. 33, No. 1A, June 1990, IBM Technical Disclosure Bulletin, pp. 420-427.
DL		"Address Munging Support in a Memory Controller/PCI Host Bridge for the PowerPC 603 CPU Operating in 32-Bit Data Mode," IBM Technical Disclosure Bulletin, Vol. 38, No. 09, September 1995, pp. 237-240.
DM		"One Frame Ahead: Frame Buffer Management for Animation and Real-Time Graphics," XP-000749898, Auel et al., Tektronix Inc., pp. 43-50.
DN		"Efficient Alias-Free Rendering Using Bit-Masks and Look-Up Tables," Abram et al., The University of North Carolina at Chapel Hill, XP-002115680, July 1985, pp. 53-59
DO		"A New Simple and Efficient Antialiasing with Subpixel Masks," Schilling et al., Computer Graphics, Vol. 25, No. 4, July 1991, pp. 133-141.

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MP&P 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

- DP "A Multiprocessor System Utilizing Enhanced DSP's for Image Progressing," Ueda et al., XP 2028756, pp. 611-619.
- DQ "The Reyes Image Rendering Architecture," Cook et al., Computer Graphics, Vol. 21, No. 4, July 1987, pp. 95-102.
- DR "The Accumulation Buffer: Hardware Support for High-Quality Rendering," Haeberli et al., Computer Graphics, Vol. 24, No. 4, August 1990, pp. 309-318.
- DS "Advanced Animation and Rendering Techniques," Watt et al., ACM Press, New York, New York, pp.127-137.
- DT "The A-Buffer, an Antialiased Hidden Surface Method, Carpenter, Loren, Computer Graphics, Vol. 18, No. 3, July 1984, pp. 13-18.

Examiner: _____

Date Considered: _____

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

Section 6. Copies of Listed Information Items Accompanying This Statement

NOTE: 37 C.F.R. 1.98(a)(2) requires that any information disclosure statement filed under § 1.97 shall include: "A legible copy of: (i) Each U.S. and foreign patent; (ii) Each publication or that portion which caused it to be listed; and (iii) All other information or that portion which caused it to be listed, except that no copy of a U.S. patent application need be included . . ."

NOTE: The wording in § 1.98(a)(2)(iii) makes it clear that the requirement to submit a copy of each item of information listed in an information disclosure statement does not apply to the citation of a U.S. patent application. Notice of January 9, 1992, 1135 O.G. 13-25, at 14.

Legible copies of all items listed in Form PTO-1449 (PTO/SB/08A and 08B) accompany this information statement.

(complete the following, if applicable)

☐ Exception(s) to above:

- ☐ Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.
- ☐ Cumulative patents or publications identified in Section 5.